

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. Canceled
2. (Currently Amended) The method of claim ~~1~~19, wherein a session sequence number is assigned to a session when a session is initiated, and said sequence number is stored in said array.
3. (Original) The method of claim 2, wherein as input and output operations are processed, the session sequence number is stored in a chunk allocation block.
4. (Currently Amended) The method of claim ~~1~~19, wherein said data affected by said at least one second session write operation is copied from a source disk to be stored at a cache disk.
5. (Canceled)
6. (Currently Amended) The method of claim ~~1~~19, wherein sessions are assigned specific slots in the array, and wherein when a new session is to replace a corresponding prior session, it is assigned to the same slot in the array as the prior session.
7. (Original) The method of claim 6, wherein said sessions are assigned session ID's, and wherein the session ID of a prior invalidated session is different from the session ID of a later corresponding session assigned to its same slot in the array.

8. (Currently Amended) The method of claim ~~1~~19, wherein said array comprises a direct linear map pointing to sections of the disk where data is located for each session.

9. (Original) The method of claim 8, wherein said direct linear map comprises a Map Region subsystem, a Paging subsystem, a Chunk Repository subsystem and a Direct Linear Map subsystem.

10. (Currently Amended) The method of claim ~~1~~19, wherein each session is assigned a unique session ID.

11. Canceled

12. (Currently Amended) The method of claim ~~11~~20, further comprising invalidating a session by assigning a new session corresponding thereto to the invalidated session's slot in the array, and assigning the new session an ID different from that of the invalidated session.

13. (Currently Amended) The method of claim ~~11~~20, wherein said array comprises a direct linear map pointing to sections of the disk where data is located for each session.

14. (Canceled)

15. (Previously Presented) The method of claim 20, wherein said VM region subsystem presents all VM metadata as a set of 64KB VM regions.

16. (Previously Presented) The method of claim 20, wherein said paging subsystem maintains a least recently used number of pages so that unused pages can be used to read in new VM regions.

17. (Previously Presented) The method of claim 20, wherein the Chunk Repository subsystem manages the cache disk as a set of mappable Chunks.

18. (Previously Presented) The method of claim 20, wherein the Direct Linear Map subsystem maintains a map from the source LU offset, session and LU write bit to a mappable Chunk.

19. (Previously Presented) A method of creating point-in-time view of data on a disk, comprising:

- initiating from a host, a first session of writing data to a disk which affects a portion of the disk;

- creating and storing entries in an array on the disk which identifies where the data written to the disk during said first session is located;

- initiating at least one second session of writing data to a disk at a time different from the initiation of the first session, with said at least one second session of writing data affecting a portion of the disk;

- copying data in any portion of the disk corresponding to said first session which is to be affected by a write operation by said at least one second session;

- creating and storing entries in said array which identify where data corresponding to said first session which is to be affected by a write operation by said at least one second session is located;

- invalidating said entries in said array for said at least one of said first and said second session when at least one of a new first session and a new second session is initiated; and

- wherein said first session and said at least one session are initiated and controlled by a first host, and point-in-time viewing of the data on the disk is conducted by a second host.

20. (Currently Amended) A method of allowing point-in-time view of data on a disk, for data written to a disk throughout a plurality of different sessions, comprising;
creating an array on a disk comprised of a map which is a linear map which stores entries and points to locations which are sections of the disk where data is located for each session, said linear map comprising a Map Region subsystem, a Paging subsystem, a Chunk Repository subsystem and a Direct Linear Map subsystem;
assigning predetermined slots for corresponding sessions in said array; and
assigning a unique session ID for each session for which entries are stored as said array;

21. (Currently Amended) The method of claim ~~14~~20, wherein data writing for sessions is initiated and controlled by a first host, and point-in-time viewing of data on the disk is conducted by a second host.

22. Canceled